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Intelligence and Electronic Warfare Tactical Proficiency Trainer (IEWTPT)

Accomplishing tomorrows training requirements today.

Purpose

To provide an overview of the Intelligence and Electronic Warfare Tactical Proficiency Trainer (IEWTPT) program.

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Outline

- IEWTPT Description
- Features
- IEWTPT Design
  - TSA
  - TCC
  - Constructive Simulation
  - Instrumentation Interface
- Modes of Training
- Distributive Training
- Support Concept
- Summary

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IEWTPT – What is it?

- **Integrates low-density, high demand Army ISR systems into constructive simulation**
- **Directly supports Joint and OSD transformation**
- **Unique program – 8 other PM's engaged**
  (PM Prophet, PM UAV, PM TENCAP, PM CGS/DCGS-A, PM ACS, PM CHIMS, PM Signals Warfare)

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IEWTPT – What does it provide to the Army?

- **Trained commanders and battle staffs in the use of ISR for OF**
- **Properly trained ISR-centric force**
- **Joint Context: Maximize ability for the Army to affect the future of Joint ISR**

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IEWTPT Description

MISSION

Provides a battlefield awareness tool to train maneuver commanders, battle staffs, Military Intelligence (MI) soldiers, crews, and units to exercise their the full set of intelligence capabilities.

CHARACTERISTICS/DESCRIPTION

- Three functional grouping of capabilities
  - Target Signature Array (TSA) embedded or attached into the IEW Tactical equipment.
  - Technical Control Cell(TCC) which networks the TSAs / collects after-action data.
  - Supporting constructive simulations
    - IOC: TACSIM/JCATS/CBS
    - FOC: JSIMS/WARSIM/JTIM

CAPABILITY / IMPROVEMENTS

- Supports collaborative training across the Military Intelligence disciplines
- Provides individual, team & collective Battlestaff training
- 3 training modes: Integrated, Playback & Standalone

CONTRACTING

Contract Type: CPIF / FFP
Award Date: 28 Nov 00
BOIP: 8 Sites
Contractor: General Dynamics, Inc.
(Formally Motorola Inc.)
Sub-Contractors: CACI, DME, TITAN

IEWTPT PROGRAM IS UNIQUE

- Training Mission Area (TMA) Funding:
  - TCC development, testing & fielding
  - TCC interface to constructive simulation
  - TCC Interface to TSAs
- Tactical System PMs:
  - Funding TSAs
  - TSA development testing & fielding

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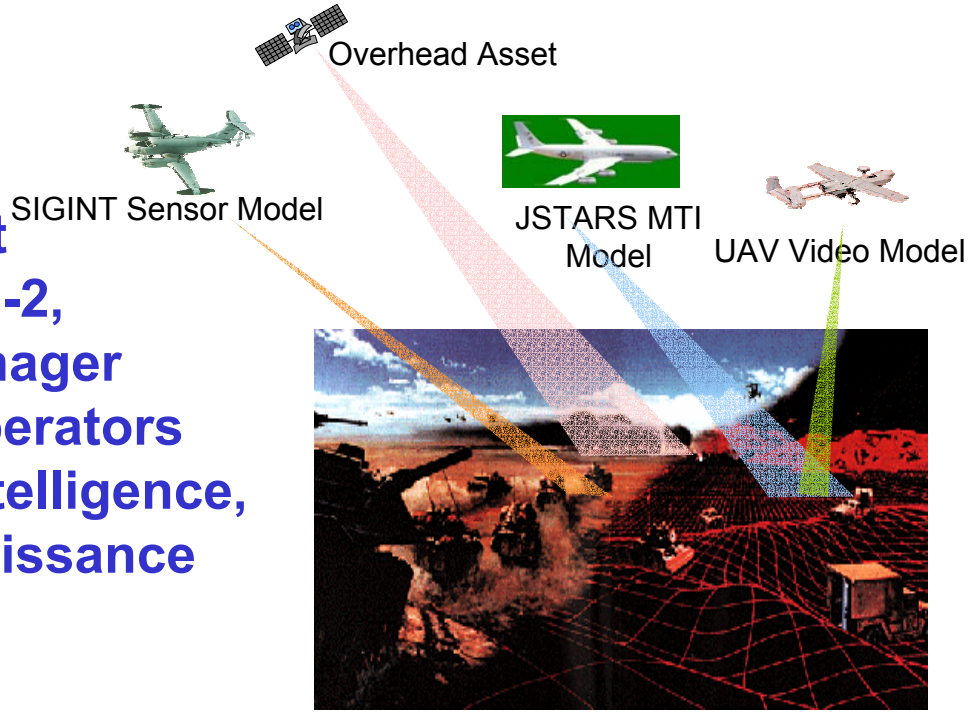
Features

- **Realistic Training for the Warfighting Commander and the Battle Staff**
- **Exercises the Intelligence Battlefield Operating System (I-BOS)**



- **Provides an environment for the Commander, G-3, G-2, Intelligence Collection Manager and Intelligence system operators to rehearse their critical Intelligence, Surveillance, and Reconnaissance (ISR) tasks.**

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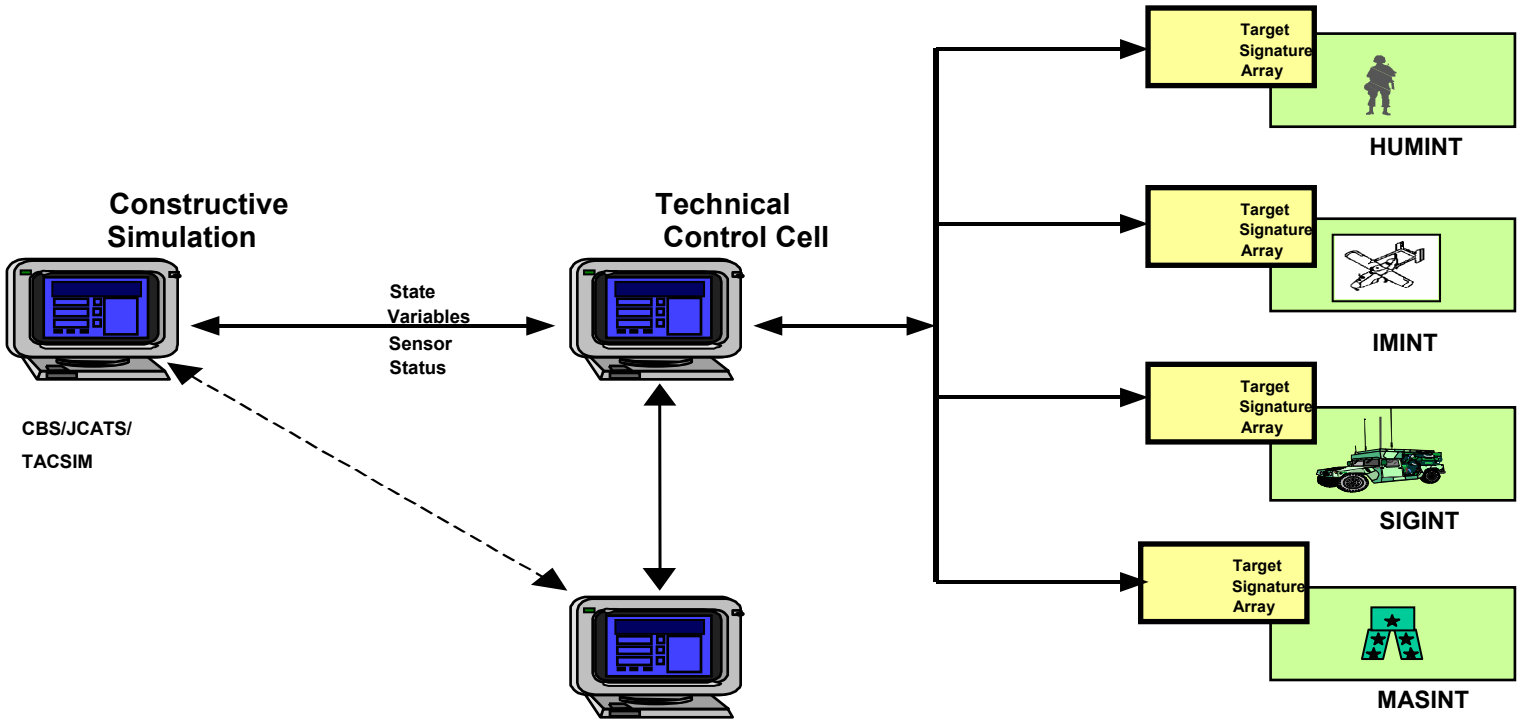
IEWTPT Concept



Target Signature Arrays

- JSTARS (CGS)
- TUAV (TCS)
- GUARDRAIL (IPF)
- PROPHET
- DCGS-A
- TES/DTES
- CHATS
- ACS

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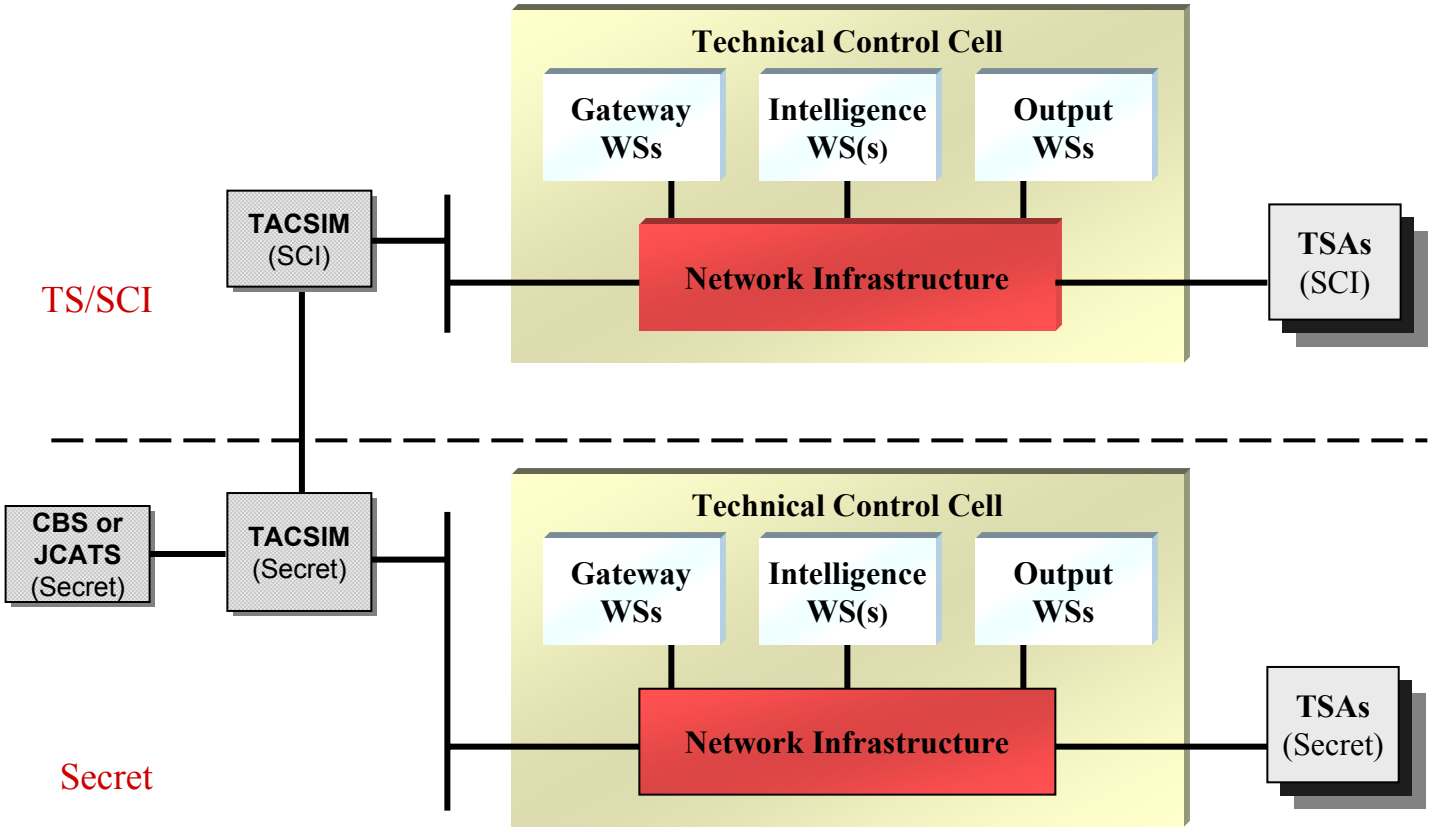
IEWTPT TCC Design



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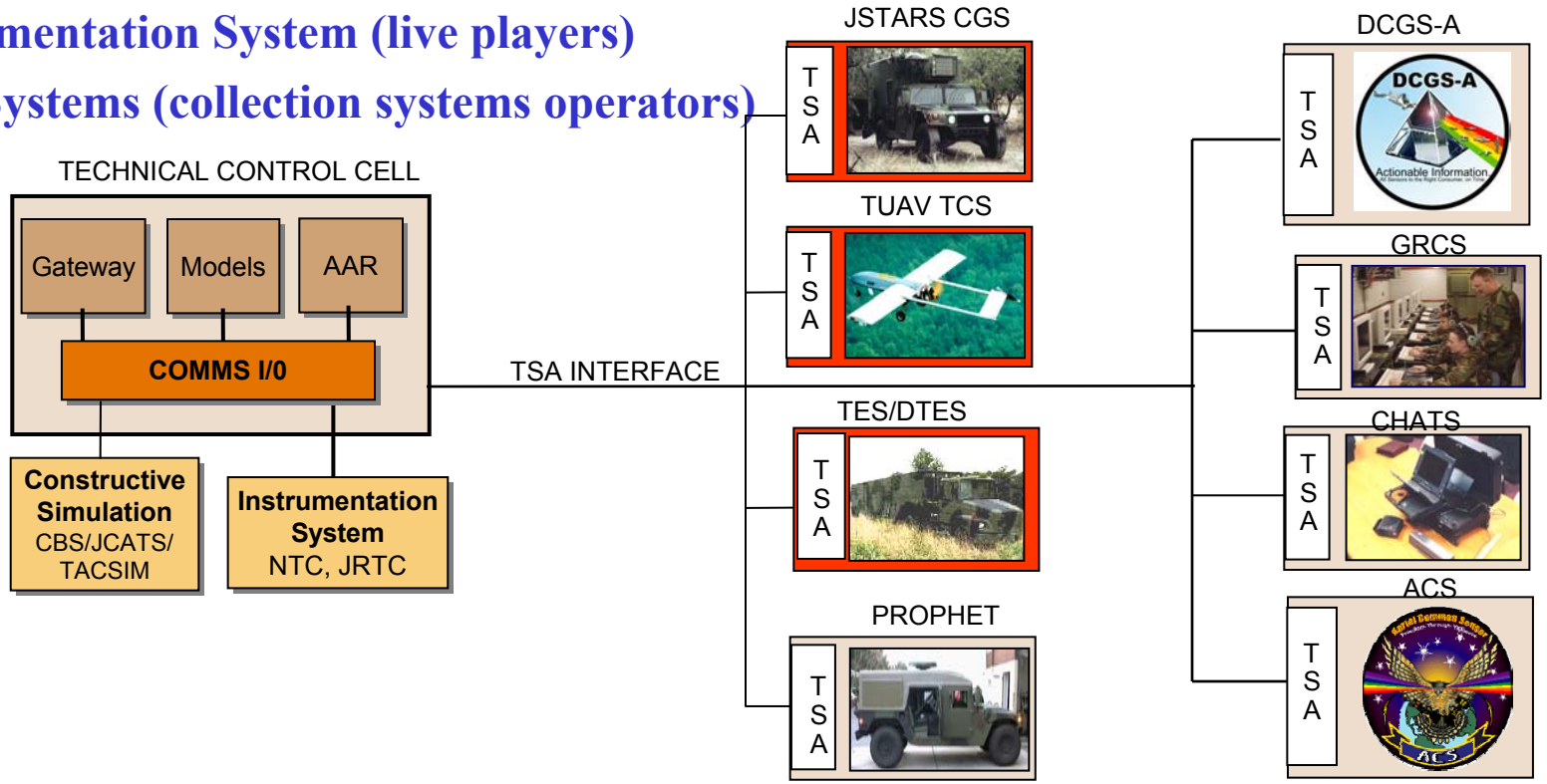
General Dynamic's Design Concept

- **Build/Install Technical Control Cell**
- **TCC interfaces**
  - **Constructive Simulation (simulated players)**
  - **Instrumentation System (live players)**
  - **IEW Systems (collection systems operators)**



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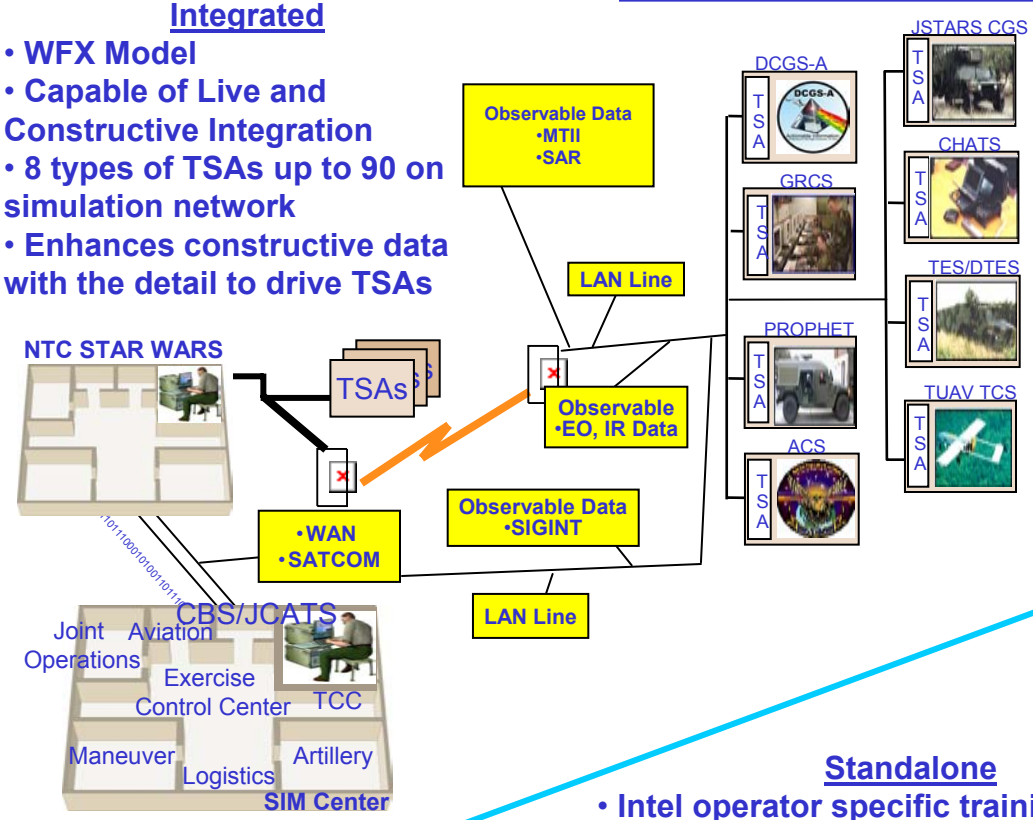
Training Modes

Integrated, Playback & Standalone

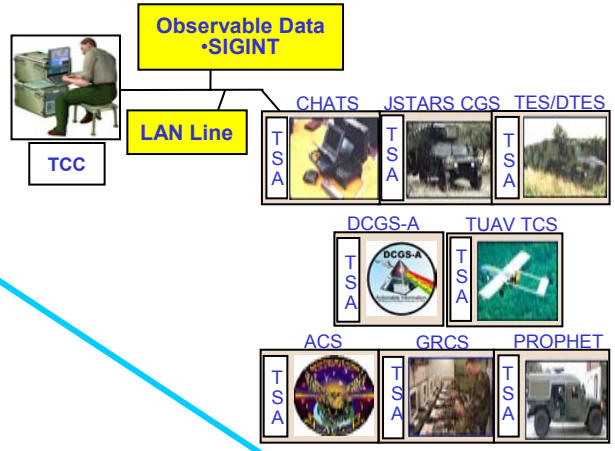
Integrated

- WFX Model
- Capable of Live and Constructive Integration
- 8 types of TSAs up to 90 on simulation network
- Enhances constructive data with the detail to drive TSAs



Playback

- Intel specific training
- TCC Records simulation scenario for playback
- Sufficient data to re-task ISR assets, maneuver scenario can't change
- Train ISR operators and MI battlestaff



Standalone

- Intel operator specific training
- TSA Records data for playback

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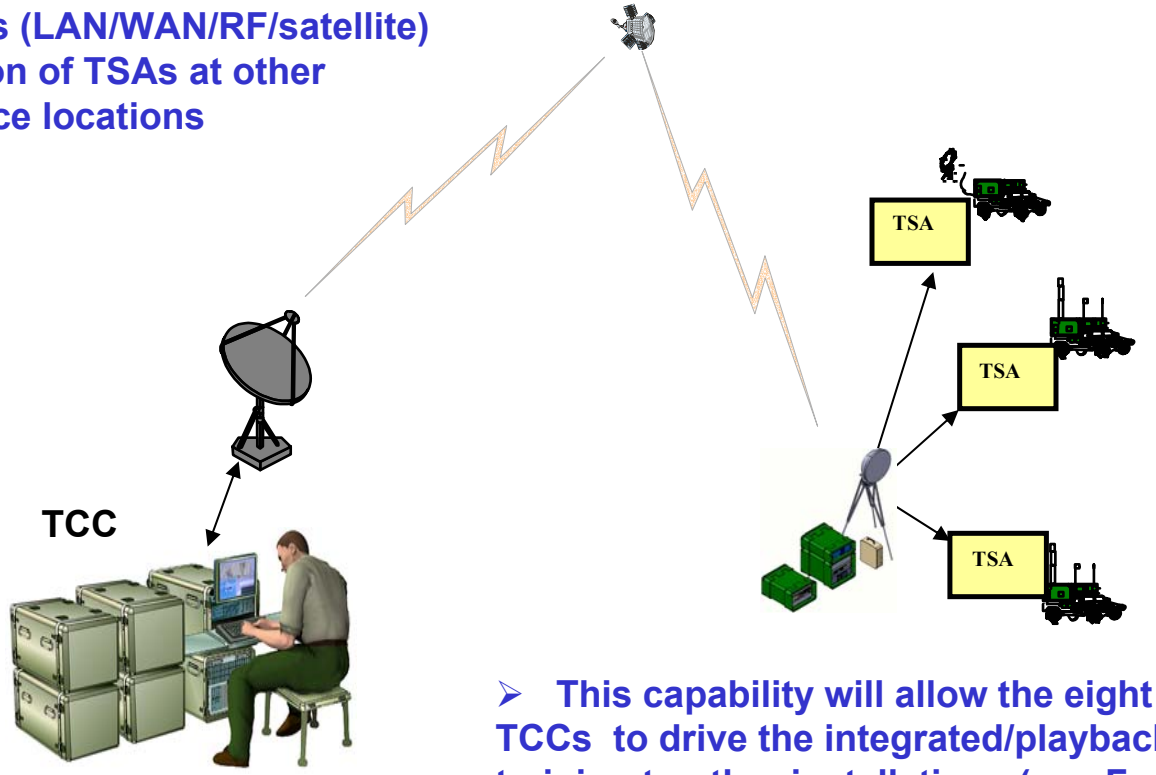
Distributive Training

- TCC can port it's scenarios over various communication links (LAN/WAN/RF/satellite) to provide stimulation of TSAs at other geographical distance locations



- This capability will allow the eight fielded TCCs to drive the integrated/playback mode of training to other installations (e.g. Fort Carson, Fort Drum, Fort Riley, etc.)

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Support Concept

- On site training
  - •NET and DTT
- On site CLS for TCC
  - •Operators and maintenance
- TTP for how to use
- WEB site for online support and questions
- Integrated into USAIC&FH training

Summary

- Invest in a new direction and achieve system commonality
- Integrate with instrumentation systems
- Full spectrum of training with same systems at institution, homestation, CTCs, and while deployed (Institution, Operational & Self-Development
- Embed trainers in systems
- Increase intel realism and fog of war
- Put MI soldiers in the training loop at homestation and CTC's
- Provide training capabilities that incorporate individual, crew, and battlestaff
- Leverage distance training/learning and distributive technologies
- Provide individual and collective evaluation of training and AAR
- Integrate future systems as we migrate to OF, DCGS-A/FCS
- Framework for integrated and holistic embedded training, testing, and requirements determination